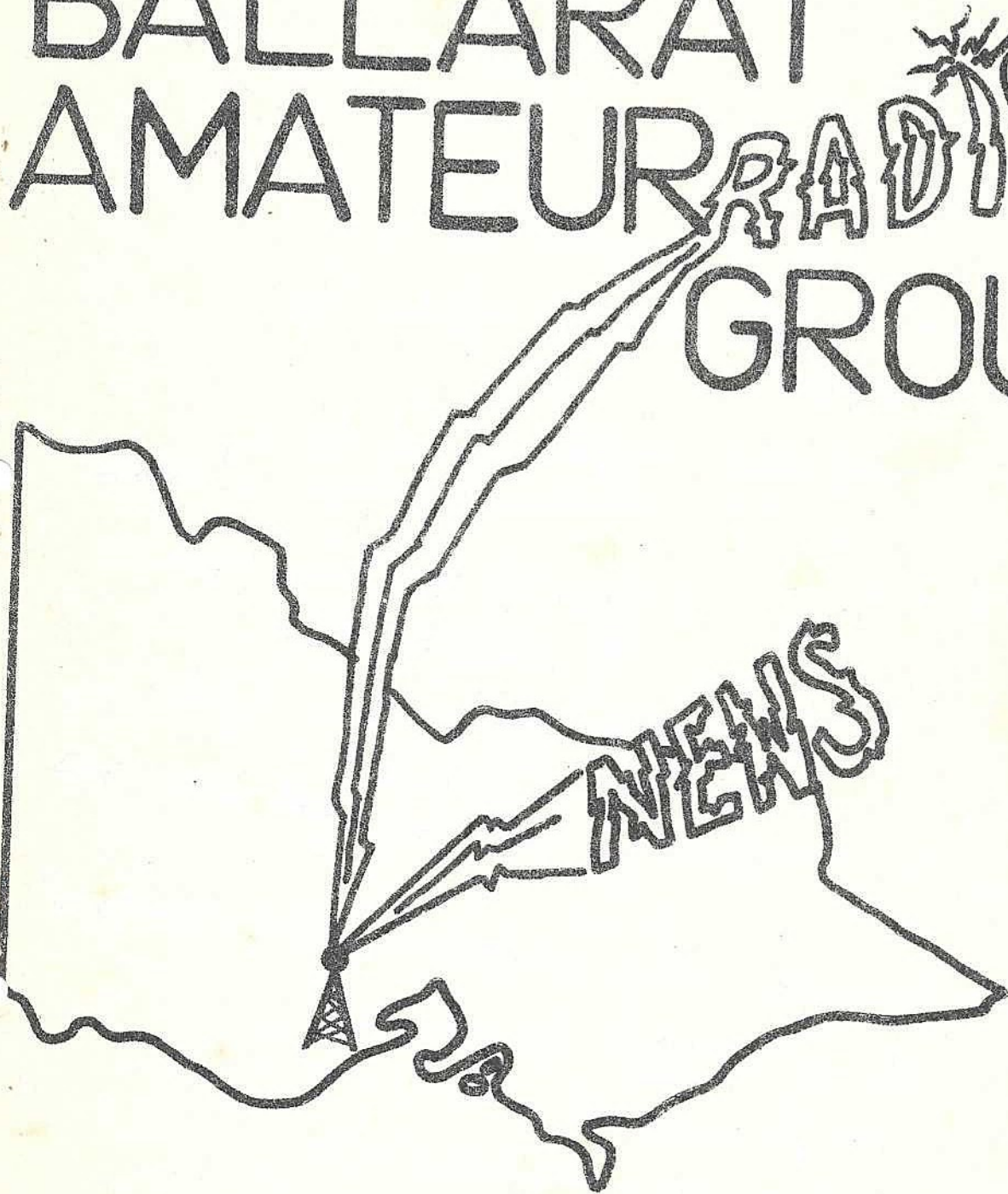


~~APRIL~~ 1981
June 01

9/6

BALLARAT AMATEUR RADIO GROUP



8/06 02

There is no clear date of this issue.

- Editorial p 3 refers to it being written sometime in JUNE
- P7 refers to meeting minutes of APRIL 1981
- P10 refers to a nurse field day in May 3rd
- P16 refers to meeting 26 MAY 1981

It is assumed it is 1981 (good confidence) and JUNE based on information.

But stands Convention

OK3PCC oct 2022

EDITORIAL and other silly things.

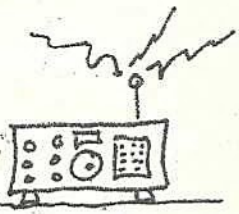
Well you might ask what the editor is doing typing May's editorial sometime in June...well, if I find myself we all might be a little wiser. Anyway down to some amateur type news. The repeater is going more than it's not, the meet-ings on the last Friday nights of the month seem most successful and will be kept at that time and place for sometime into the future, and next month we, (yes you), elect a new leader amongst other committee members. (after we all pay our \$5 anual subscriptions of course). Now the good news .. there's plenty of spare pages in the receipt book and lots of \$5 notes incirculation.

Our present president Dick is not standing for re-election as president and no doubt is a little anxious at the thought of who will take over this position. I will say most sincerely that the level of interest and activity in the club has increased many fold under Dicks direction and the development of the club from here will depend very much on the personality of the incoming president. With so many complications in the life of so many of us the running of the club cannot be undertaken by only one or two people - enter the committee - don't be shy if your asked to fulfill a role someones got to help and why not you if not who? Nomination forms will follow in the newsletter. Write down the names of people you think will benifit you if they form part of the committee. If you feel you have the the time and energy to help nominate yourself, (remem-ber a volunteer is worth ten picked men (or thirty seven women)), get someone to sign the form and hand it up.

There has not been much news concerning the (now dying?) interest that there seem-ed to be about the possibility of the club moving into it's own clubrooms. If any one knows of what is or what might be happening drop a line to the news letter so we can let everyone know. On the subject of newsletter the editors position is also up for nomination. I would gladly pass this on to any one who is inter-ested so that I could spend my time preparing more specialized articles. All thats involved is some very basic cutting and glueing of handins, with some typing or whatever of classifieds etc. This collection is then handed to Geoff Smith who then prints and assembles the paper for passing on to a third party for fold-ing and posting. So, you don't have to do much, you just have to do it before the end of the month.

Thats about it folks, well almost it ... the novice course is to be run again this year. I demand that someone write to the editor, (one letter for the year would be nice), with some constructive critism, (thats anew word for (and another one) for advice and opinions), about the course. Ideas etc from those people in-volved in the course in previous years would be quite welcome.

Clem Jarvis.



FOR SALES....ICOM 702 Mint cond. can be conv. for novice use.
 Power supply for IC 701 and other units.
 Three element 20metre beam.
 All band 80 - 10 metre trapped vertical with ground mat.
 FRG -7. communications receiver in mint condition.
 All of the above are price on application.
 37 assted Ni cad batteries:-
 18 D size, 4 C size, 15 AA size the lot \$ \$18.



Contact Lachlan Mac Donald ph 316318 or P.O. Box 218E B'rat East or call at 318 Eureka Street.

81/06

04

FOR SALE FOR SALE FOR SALE FOR SALE FOR SALE FOR SALE FOR SALE

FOR SALE in AS NEW condition, Complete station; (or will sepearate)

1 TS120V
1 AT120
1 VFO120
1 TL120
1 SP120
1 20 Amp Power Supply

Please Ring Harry VK3NLH Tel 357563 . For further details
re price etc..

WANTED WANTED WANTED WANTED WANTED
WANTED WANTED WANTED WANTED
WANTED WANTED WANTED
WANTED WANTED
WANTED

ONE SET (4) OF SAND TYRES SUITABLE FOR COMMODORE.

PLEASE CONTACT NEIL VK3NIQ IF YOU CAN HELP !!!!!

*

Don't

FORGET

A. G. M.

81/04 5

2.

NOMINATIONS



I, Berry D. Magee - 1-31286, nominate the following people for the indicated position. They all seem to be reasonably together "up-top" and have indicated their willingness to bear the yoke by signing their names where indicated.

PERSON IN QUESTION.	POSITION	SIGNED
.....		X.....
.....		X.....
.....		X.....
.....		X.....

Signed B. D. Magee

TEAR ALONG THE DOTTED LINE

WARNING

If you want to see this magazine next month produce your club membership of \$5 at the next meeting. A mag. will be sent to people outside of the Ballarat area on receipt of the sum of \$2.50. (this charge is intended for non club members. If your looking for a gift for those that have everything?)



[Faint, illegible text, likely bleed-through from the reverse side of the page]

81/06 7

3.

MINUTES OF THE MEETING, B.A.R.G., April 1981

The Ballarat Amateur Radio Group had its monthly meeting at the Community Education Centre on Friday, 24th of April. Meeting was well attended and started approx. 7.45PM.

APOLOGIES were received from Loughlan, Paul BWC and Clarrie VEZ.

MINUTES of the last meeting were available in the current newsletter and were accepted as correct (George BA/Dick XCV

VISITORS and new members were welcomed by Dick VU, among them David PDC, Gary and Peter.

BUS. ARISING: none was noted, - a quiet month, it seems.

CORRESPONDENCE: outwards: Letter to K. Gloyes WIA, listing the repeater users compiled by Maurie Batt

Inwards: WIA letter outlining the conditions of use and technical specifications f. repeater unit recently installed. Also letter of thanks (in reply to our earlier letter of welcome) from the Hamilton A.R.C.; Copy of the Geelong A.R.G. newsletter and one poster and covering letter regarding the proposed anti-woodpecker campaign through the A.R.A.

CORR. ACCEPTED: Bill VVX/George VEI

TREAS. REPORT: Keith NWN reported the finances of the group as \$510.07 after payment of outstanding debts and suggested that the sum of \$250.- be suitably invested in interest bearing deposits to gain financial advantages for BARG (Bill VYP/Hank

QSL AND AWARDS: Maurie has been a busy boy this month, with 954 cards outward and 173 inward (makes you think, doesn't it, where the difference disappears to)? Remaining stragglers from the field day are still being attended to. The "DX-widows award appears to be going well and initial costs have been recouped by 50% already, - seems to be a real "goer". Quiet month for QSOs.

TECH. REPORT: Phil AQM (present) brought in and reported on part of the new receiver section for the repeater. Some really deep and heavy explanations were given how and why it works; unfortunately (for the writer) it was too deep and esoteric. Still and all, - nice going, Phil!! And TNX from the guys who DID apparently understand what you were on about (or pretended to, hi)

NEWSLETTER: Ran into a few snags and was rushed out in a hurry, but was in time for the meeting and seems to be going stronger each month.

(meeting, 4/81)

-2-

8/1/06

8

47.

Suggestions were made to Geoff to investigate possibility of better reproduction facilities (initially just for the cover). Other than that, it was a very good production this time.

PUBLICITY: Clarrie VEZ was working, but apparently all is well under way to promote the group's "DX widows award" through various channels.

EDUCATION: No new developments, but the novice and full call courses will be re-introduced quite soon by the group.

GENERAL BUSINESS: Several new CW cassettes have been added, for the use of group members, to the library cabinet.

Some brief discussion took place about the recent interference problems and the subject (ahem) of QSL cards was briefly touched. The video tape of the Ballarat (US) affair was also presented.

The scheduled guest speaker, Doug McLeod was next introduced to speak on the subject of "ANTENNAS FOR HF USERS" and the talk given by him aroused quite some interest and comment and questions. His legendary "helicals" were certainly an eye-opener for most listeners, and the applause showed that his speech was much appreciated.

Official part of the meeting was over in record time and closed about 8.15 PM

P.S.

Oh yes, - mention was also made to members NOT TO FORGET (as I almost did) about the planned picknick and general get-together with the Geelong mob Sunday week, May 10th at Lal Lal falls and sniffers and other diversions were invited for the occasion.

Hopefully, it'll be a good turnout - if the WX stays clean.

Our phantom reporter "the Phantom" presents:..

PRODUCT REPORT.....PRODUCT REPORT.....PRODUCT REPORT.....PRODUCT REPORT.....

A start of a series of reports on products available to you the consumer of the out put of the vast electronics empires...this week from Tandy Electronics ...

The 25 ASSORTED ZENNER DIODES handi pak....

this was found to contain...2x4.7V, 2x5V, 1x5.3V, 4x5.6V, 1x6V, 5x7.4V, 1x9.3V, 5x18V, and four others whose reverse breakdown was greater than my 0-20volt power supply. At this point the words of that well known amateur Kevin Hughes come to mind "every diode is a zenner diode - you just have to apply enough voltage."

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5.

DX NEWS DX NEWS DX NEWS DX NEWS DX NEWS DX NEWS DX NEWS DX NEWS

The bands remain in good shape throughout April/May with 10m in excellent shape. There has been an excellent bag of DX on 10 but once again you have to be there to work them hi. If only I could solve the 28 MHz / TV channel 3 problem then i'm sure that I could work a lot more on that band however then I probably spend too much time in the shack. There was a large solar flare Monday May 4th which made the bands a little "flat" but they seemed to recover by the weekend of the 10/11th. This of course applies mainly to the 20/15 and 10 Mx bands. Not much more to report this month except some QSL info and stations worked etc. So 73's for now hope you have a good month next month.

Dick..... VK3VU

QSL INFORMATION

W3IVP/5N1	via W4FRU	5Z4GM	Box 57056 Nairobi Kenya
ZK1XJ	via 3D2ES	EL2CA	via K9AUB
7P8AC	Via 1981 c/book	EASCE	via EASRF
XT2AU	via WA1ZEZ	JTSDJT	via ISYGG
5V7HL	via 1981 c/book	ZK2PF	via K9KB
EL2AK	via 1981 c/book	YK1AO	via Box 35 Damascus Syria
YS9RVE	via WA0JYJ	ZD8TC	via N2CW
ZF1SB	via NSAG	3D2CC	via VE6AKV
G3JKI/5A	via F6CYL	6Y6DA	via VE4JK
8Q7AR	via W3RHK	0J2BO	via W6ORD
T3AZ	via WB6FBN	PJ6UQ	via W3HMK

Stations worked/heard from Ballarat area during May:

10 Mx

7P8, XT2, KAI1J (Iwo Jima), NP4, EL, 5V, 5Z, VP9, VP1, A35, CEGA, F08, 8P6, VP2A, VP2V, KH5, S79, PJ4, 9M6, DU, JA, VK9N, 9G1, 9H, A4X

WANTED TO BUY SELL OR EXCHANGE ETC..... Ads in the mag. are free and I would be very welcome to print them. Contact me directly or leave details at the Regent theatre addressed to Kevin Hughes. Clem Jarvis.

KH3, KH5K, ZK2, 9M6, VK9NYG (Cocos), TL8, S79, SQ7, HG1, KP4, S8, FR8 (Reunion), ON7, 9G1, HH2, KH2, 9Y4, 9N1, JY9, UF6, EL, LZ, EAS, ZE1, HS1, 4X6, TI2, HK8 (St Andrew), VP1, 3D6, JT1, ZK1, HP1, UM8, VQ9, VK8.

15 Mx

A35, W, S83, J28, VP9, VE, H13, FK8, VK8, CO7, CE8A, 3D2, VK9N.

20 Mx

KH5, EL2, M1, FC9, S83W, 9H1, Y2, T32, ZK1, TU, VP2M, VP2V, VP2A, VE, PJ4CR (Bonaire Is), A35, HS1, FY7, FM7, CX, CP, PP, EA9, EAS

QSL INFORMATION

8Q7BI via JH4RUG

N4ADJ/KH2 via WB4CCJ

FK8DJ via VK3OT

HG1KZC via HA1XR

9Y4VU via W3EVW

ZK1AR via AA6Z

9G1AP via I8LCJ

9N1MM via N7EB

HP1XOG via VK3VYP

HH2BM via W6RP

JY9RV via GW3RVG

MI1PA via F8CXJ

H44SH via AD1E

UF8FFJ via WH3AAB

KT3AU via WA1ZEZ

HS1ALP via Box 2008 Bangkok Thailand.

VP1ME via Box 367 Belize C.A.

GEELONG-BALLARAT FIELD DAY

This mini field day was held on May 3rd at Lal Lal Falls and was a great success but there was a disappointing number of club members from Ballarat and Geelong. However those who went along had a great time. The day consisted of a number of 2Mx sniffer hunts and a 10 Mx scramble. When all the points were added up it was found that Ballarat had won the trophy. The score is now equal. Ballarat 2 years and Geelong 2 years. The winner of the major prize was Peter VK3NVJ. Thanks to those few who turned up and made the day a success. Thankyou also to Richard Wilson of Ballarat Electronic Supplies for his donation of prizes. 73's DICK VK3VU.

For sale ... Jack Reid has a trapped vertical antenna for sale. Works well 80 to 10 metres. I've lost the phone book so you will have to take it from here. Its in excellent condition and had little use.

Wanted.....people interested in construction a converter for the reception of ATV. Works in conjunction with your standard TV to receive 432 MHz signals. For further details contact Clem Jarvis 314779 or write to 210 Humffray Street North.

List of countries where no QSL bureau is available.

There are around 47 countries that do not have a QSL bureau, below is list that can be kept for future reference. Note that most of these are hard to come by countries so make sure you ask for QSL information.

A2 Botswana.	VP2V British Virgin Is.
A5 Bhutan.	VR1 (T3) British Phoenix Is.
A6 United Arab Emirates.	VR3-7 (T3 East Kiribati.
A7 Qatar.	VR6 Pitcairn Is.
C3. Andorra.	T2 Tuvalu.
C5 The Gambia.	VS6 HARTS Members Only.
C7 Mozambique.	XT Volatic Rep.
CR9 Macao.	XU Khmer Rep.
FG Guadeloupe.	XV Vietnam.
FO Clipperton Is.	XW Laos.
FR Glorioso Is.	YA Afghanistan.
FR Juan de Nova.	YS El Salvador. CRAS Members only.
FR Tromelin.	ZA Albania.
FW Wallis & Futuna Is.	ZD9 Tristan da Cunha.
HC8 Calapagos Is.	ZK2 Niue.
HH Haiti.	IS Spratly Is.
ST Sudan.	3C Equatorial Guinea.
STØ "	C3Ø Annobon.
TJ Cameroun.	3V Tunisia.
TL Central African Rep.	3X Rep of Guinea.
TR Gabon.	3Y Bouvet Is.
TT Chad.	4W Yemen.
TY Benin.	5H Tanzania.
VPI Belize.	5X Uganda.
VP2K St Kitts, Nevis.	70 South Yemen.

QSL BUREAU OPERATIONS

Please read and note the requirements as laid down by the W.I.A. Inwards and Outwards Bureau. For the benefit of members unaware, these are reprinted elsewhere in this issue. Maurie Batt.

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QSL BUREAU OPERATIONS

80

The VK3 Division QSL Bureau is divided into two sections, Inwards and Outwards.

The Inwards QSL Officer is Mrs. Barbara Gray, VK3BYK
1 Amery Street,
ASEBURTON. 3147. (Phone 25 1885)

The Outwards QSL Officer is Mr. Roy Prowse, VK3XY
83 Brewer Road,
BENTLEIGH. 3204. (Phone 557 1265)

These services are provided on a voluntary basis, free to members of the Victorian Division, W.I.A.

OUTWARD OPERATIONS

QSL cards are despatched only to other QSL Bureaux throughout the world. The method of using the outward bureau is as follows:

With each batch of cards forwarded, members of the Victorian Division should send the address label from an "Amateur Radio" envelope, non-members must enclose mint Australian Post stamps of not over \$1.00 individual value at the rate of 5c per card. Cards for non-members are NOT handled free of charge. Each card must not exceed 140 x 85 mm (5½ x 3½ inches), and have the call sign of the recipient station printed on the rear of the card in the top right hand corner. Cards are to be sorted into prefixes. Cards for despatch can be delivered or posted to Roy or the Victorian Division Rooms. Speedier despatch will result if cards are sent directly to Roy.

Please Note: Some users of the Victorian Division Outwards QSL Bureau are writing more than the allowable number of a maximum of five words of greetings or other remarks on cards to other stations. Senders of QSL cards are reminded that when any more than five written words of greetings or other remarks are used, then the card does not qualify for a reduced postage rate. This can result in the rejection and return, and perhaps destruction of all cards contained in packets addressed to other QSL Bureaux world wide.

Please therefore, do not write any more than five words of greeting or other remarks on cards forwarded through the Victorian Division Outwards QSL Bureau.

INWARDS OPERATIONS

Cards are sent to the Inwards Bureau from other Bureaux all over the world. Cards can be collected three ways:

- 1) By calling at Barbara's QTH, telephoning first to ensure Barbara will be home (Please phone at a reasonable hour).
- 2) By sending stamped addressed envelopes (approx. 7 x 5 inches) to Barbara. (This is the most popular method.)
- 3) By collecting after arranging for them to be left for you at 412 Brunswick Street, Fitzroy. The Office is attended 10am to 3pm each week day. Members making this arrangement must arrange to collect their cards at least once a month.

Please note: Incoming cards are retained for twelve months only.

21/06 12 90

Further to the CSL W.I.A. requirements regarding the size of CSL card size, (Max 5½ x 3½ inches 140 x 85MM), I received a note from the Manager that he is returning over size cards that do not comply to the above mentioned size. These cards I think are mostly picture view cards, I have noted that there have been many well over size CSL cards from some members.

LOW BAND DX.

Conditions have been very poor on 80 and 40 meters this month, JA QRM has been very bad on 40 meters and I note that many of the South Americans and Caribbean countries have moved up into the U.S.A. portion of the 40 meter band, maybe they have had a change in their frequencies or just to get away from the JA QRM. On 80 meters the band has been mostly free of static this end but I expect that as most of the DX countries are into their summer period now and are experiencing static conditions there, when the conditions are not too bad best times for DX is from 18.00z This also applies to 40 meters but one will open before the other.

80 Meters.

FK8CR. 3B8AE/3B9, some JA's and a few U.S.A. stations

The best one this month was ADØS/KH5K.

40 Meters.

VEISZ.	GW3AX.	JA's.	LUIJCE.	CE6CWS.	KP4YD.
PY3CB.	TI2JIC.	CO2JA.	ADØS/KH5K.	XEIUF.	TG9AL.
CX8IB.	EASAK.	FM7WS.	3B8AE/3B9.	HTIXVY.	6Y5MJ.
KP2A.	YV4BVB.	9K2DR.			

DX that will be around shortly.

Franz Josef Land. YLIP and EXIP, CSL to UP2BBM.

Tokelaus. (ZM7). VK9NS and three other VK's will be operating there from June 4th plus or minus two days, be there for 2 weeks usual DX frequencies, both SSB and CW.

PYØ. St Peter and St Paul's Rocks. No date set but expected soon.

Rumour has it that a DJ may operate from ZA.

Maurie Batt.

Awards

10

The "DX Widows Awards" have got off on a very good start and we should be soon reaping the benefits of feedback. Both the DX Widows Award and the Begonia Award will be given publicity in "ARA" and also "Amateur Radio". In the overseas it will appear in "Break-IN" the ZL amateur radio magazine in the June issue, also in the USA magazine "73".

Samples of both of our awards have been sent to the "Illawarra Amateur Radio Society" and the "Moorabbin and District Radio Club".

Any club members that have not yet had the DX Widows Award may have same on payment of \$2.00, these will be available at the club meetings.

I am very sorry to report that the husband of our "Inwards QSL Manager" Mrs Barbara Gray passed away on April 24th, on behalf of the club a message of sympathy has been sent.

Over the past few months Barbara has been doing her best to cope with the QSL bureau under very difficult conditions, our very good friend Eric Trebilcock has been going over to lend a hand, Thank you Eric.

QSL Returns.

When you hand in say a 100 QSL cards, do you ever think how many will be acknowledged by a return card, if you receive 40% then you are doing very well indeed, even if you do send direct with IRC's you cannot be sure of a reply, most of the "DX-Peditions" are very good with a direct QSL but do not expect it by return post as some QSL managers may have to wait many weeks or even months for the logs.

Recently I sent a sae and 3 IRC's for a country that I wanted badly, I received the IRC's back and my card with a note to say "It should be green stamps not IRC's".

Some countries are better than some others with QSL's, in some maybe it could be that there is no bureau in that country, so before you send a card check the the list of countries that have no bureau in this issue of the magazine.

In 1975 when I was working on the VK Premier Award, "Australian Commonwealth Electorate Award" where each Electorate must be confirmed with QSL cards, with every card I sent I did send a s.a.s.e for return, from a record of cards sent the result was as follows.

80 meters.

40 meters.

I42 sent.

I48 sent.

I25 replied.

I25 replied.

I7 did not.

24 did not.

From this I gather that VK's are very good QSL'ers, on the other hand one VK replied to say that he could not be bothered to QSL to SWL's, one other implied that I could find others of my kind under rocks. With everything it takes all sorts, one gent VK3AXH did QSL twice and with a note that restored my faith in the hobby.

The Things You Hear On the Bands.

1st VK, "Where have you been the last few weeks" 2nd VK, "I have been down the lower end having great fun with the novices".

1st VK, "I never go down that end, you meet a better class of chap up this end".

All for this month. Maurie Batt.

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110

WANTED TO BUY

External speaker to match FT101B/E etc

Alan Snowball 311138 (messag

FOR SALE

Icom 502 52MHz SSB transceiver As new in carton \$175.00

Five element 6Mx beam Gamma match wide spaced \$40.00

Uniden 2020 HF transceiver new finals fitted
Complete with external VFO AC/DC operation CW
filter handbooks cables and microphone etc \$530.00

Yaseu linear amplifier Full legal limit output
New finals recently fitted A proven performer \$295.00

DICK VK3VU 357663 A/W.
357663,

CHEAP QSL CARDS

If you want a quote for cheap QSL cards then telephone
Barry Carroll on 391478 or call on him at 915 Howitt St Wendouree
(near the squash courts). Remember to tell him that you are from the
club so we can get our rebate.

Experiment? Who me?

The editor has been approached with a view to including a series of guided
experiments to help those that are new, or perhaps not so new to some aspects
of those little electronic devices. Has anyone some ideas on what could be
done here? Perhaps some manipulation of individual devices to study charact-
-eristics rather than application? or perhaps a mixture of both.

Short wave listners.....Someone months back asked for simple technical
articles devoted to shortwave listning in general. A plea for someone to
enter here am prepare information. Small articles of perhaps half a page
would be fine, with more if you wish.

Help. HELP...Does anyone have a friend with access to facilities capable of
producing an audio tape of slowscan TV signals from a show card or slide?
Please let me know.

Clem Jarvis.

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MINUTES OF THE MEETING
of the B.A.R.G., FRIDAY, 26th of May 1981

Meeting opened at 7.30 P.M. and was attended by 30+ members.
APOLOGIES were received from Tom George, Barry Magee, Jack ASR,
MINUTES OF THE PREVIOUS MEETING were read and accepted(VYI/NLZ)

BUSINESS ARISING : Dick VU proudly announced that the inter-club trophy had been won back from Geelong, hopefully for good. The Barbecue last month at Lallal had been a reasonably good success, it seems, in spite of the rather small turnout. He also reported that further books and mags had been added to the club library recently and one book (ANTENNA TESTS) had been donated by VYP, - with thanks from the group.

CORRESPONDENCE: outward: Letter of thanks to Doug Mc Cleod for his effort as the guest speaker last meeting

INWARD : Dick Smith, re directory listing in new book; Geelong ARC newsletter, Townsville ARC concerning planned convention 25-26 Sept. with syllabus.

TREASURERS REPT.: Keith NWN tabled report stating club finances as \$535.07; payment for stationery and petty cash left a balance of \$500.07 (Bob BNC/AAI)

QSL & AWARDS : Maurie reported that, due to death in the family, no QSLs were received last month, but should come through ok from now on and that a monster packet of russian QSLs was received awaiting distribution. More than 1000 outwards cards had been handled last month and quite a few inquiries for addresses. Awards moving rather slowly, but steady.

PUBLICITY: Some headway was made publicising the DX widows thing and great things are expected from it(?) It will be featured in ARA and BREAKIN and should set the ball rolling (we hope).

EDUCATION: No great news, but (again) the novice (and full-call?) courses are to commence shortly, so they say.

TECH. REPORT Phil AQM brought in and talked about some wizardly metal box with mysterious things inside it and I hope that others understood it better than I did. Is supposed to be the high-Q front end of the repeater, it seems. The beacon is still operating, but there seemed to be some doubt about it.

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B.A.R.G. meeting, May 81

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NEWSLETTER: Truly a tale of woe. According to Murphy, everything that can go wrong, will. It just didn't appear and promises were made that it will be in members hot hands sometimes the following week. Thanks.

FURTHER BUSINESS: Dick VU reminded members that next meeting will be the AGM and that new office bearers would be due for election. There was some confusion as to what happened to the last minutes book and/or the only draft of the constitution, -it needs looking into. Dick also loudly reminded evrybody that subs will be due again next meeting(\$5.00 p.a.) There also was mention of a coming DXpedition next march to Tonga and other romantic places where beer is tax free and the rare-ones beg for your QSLs, -The stuff dreams are made of.

Dick also put to the meeting the question whether the present time and venue arrangements were to be continued and it was voted to keep it as is.

(VUI/Hank)

FINALLY :The meeting closed officially at 8.15

Brian Stares then(having been conscripted by Dick) gave a very thorough talk on the finer points of coax connectors, soldering and general maintenance. Thanks, Brian, your words were NOT lost on us.

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AERIAL MATCHING TRANSFORMERS

Doug McLeod

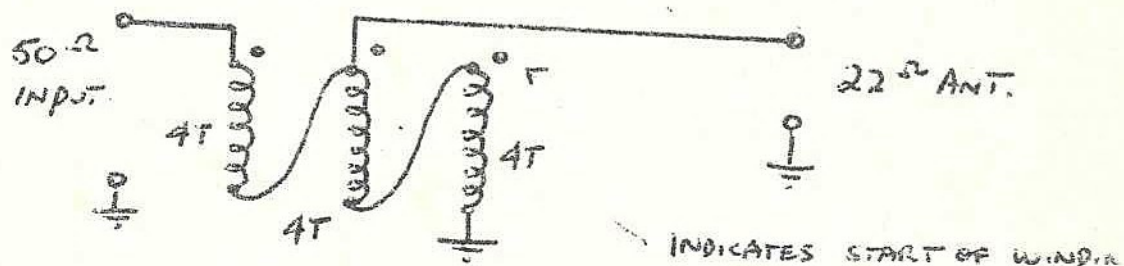
To match a 50 ohm line to a 22 ohm mobile whip proceed as follows:-

MATERIALS

Wire 0.036.

Cores 2 off. Phillips 4322020 97/50

White tape.



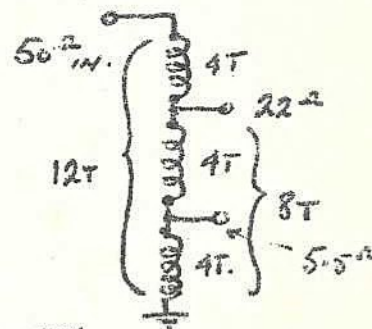
There are two Toroid cores in this transformer which should be good for 120 watts. The white cotton tape is used for two reasons, so the windings do not break down to the core, and any sharp edges on the cores does not scratch the enamel off the wire.

The 3 wires are twisted together first and then wound on the cores as per sample, then phased as per diagram.

The amount of inductance added by the transformer will be very small (Approx. 0.1 uh).

The number of turns on a Toroid is counted by the number of times the wire passes through the middle.

$$\left(\frac{N_p}{N_s} \right)^2 = \frac{Z_p}{Z_s} \Rightarrow \left(\frac{12}{8} \right)^2 = \frac{50}{2.25} = 22.22 \text{ OHMS.}$$



The efficiency of this type of transformer is very good. Approx 98%.

REFERENCES: E.A. August 1979.
ARRL Handbook.

Service.

14 = 81.

81/06 19